

6-FM-7Ah

Valve-regulated Lead Acid Battery Specification

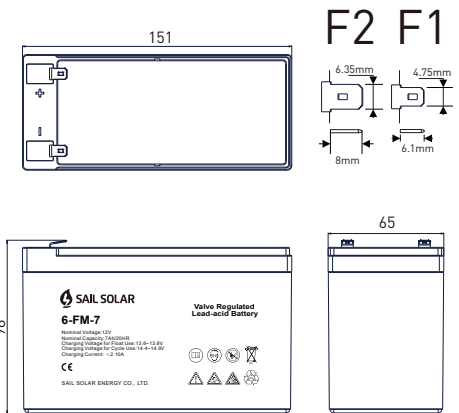
Features

- Maintenance free
- Safety and no leakage
- Excellent recharge and discharge performance
- Low self-discharge rate
- Adapt to high or low temperature
- Good deep discharge performance
- Longer cycle life



Specification

Rated Voltage	12V
Numbers of cells	6 Cells
Capacity	7.0Ah@20hr-rate to 1.80V per cell @25°C
Type	VRLA
Internal Resistance	Approx. 23 mΩ
Terminal	F1 / F2
Max. Discharge Current	105A(5s)
Short Circuit Current	375A
Max. Charging Current	2.1A
Reference Capacity	C20 7.0AH C5 5.8AH C1 4.26AH
Design Life	6~8 years
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -20mV/°C/Cell
Cycle Use Voltage	14.4 V~14.9 V @ 25°C Temperature Compensation: -30mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~40°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Length	151±2mm (5.9 inches)
Width	65±1mm (2.6 inches)
Height	94±1mm (3.7 inches)
Total Height	98 ±1mm (3.9 inches)

Constant Current Discharge Characteristics: A(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	1.66	1.14	0.653	0.350
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	1.71	1.16	0.663	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	1.75	1.19	0.672	0.361
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	1.77	1.21	0.680	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	1.81	1.23	0.690	0.371

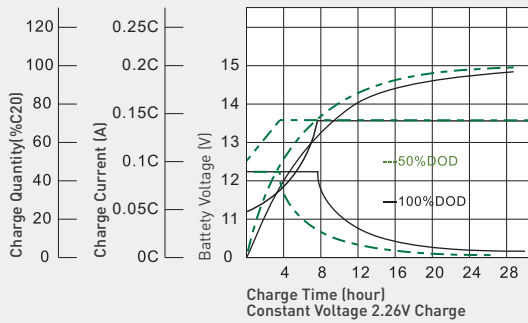
Constant Power Discharge Characteristics: WPC(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	3.30	2.27	1.31	0.704
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	3.37	2.31	1.33	0.716
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	3.42	2.34	1.33	0.718
1.65V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	3.45	2.36	1.34	0.720
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	3.50	2.39	1.35	0.728

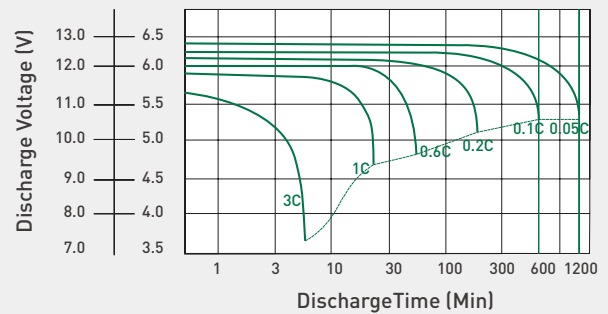
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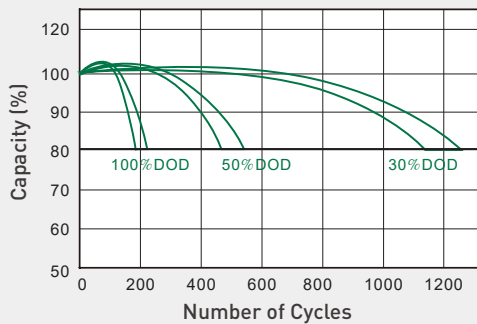
Charge Characteristics for Float Use @ 25°C/77°F



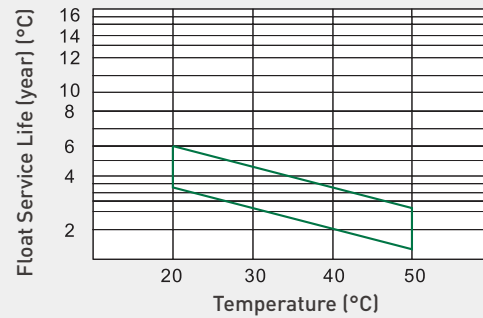
Discharge Characteristics at Various Rates @ 25°C/77°F



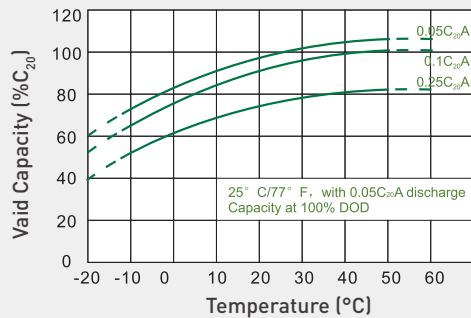
Cycle Life in Relation to Depth of Discharge



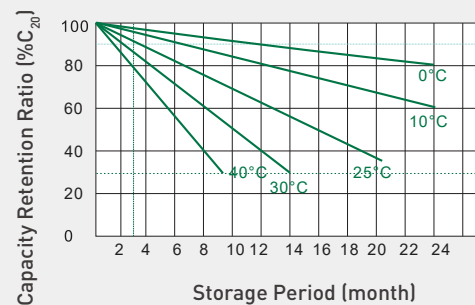
Float Service Life



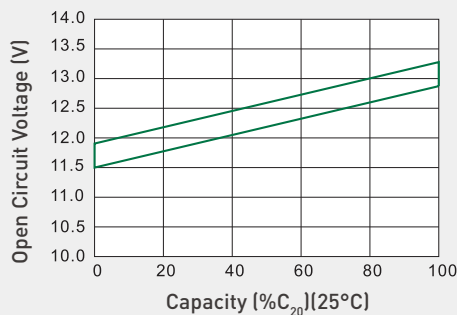
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

